

104050-893F5260

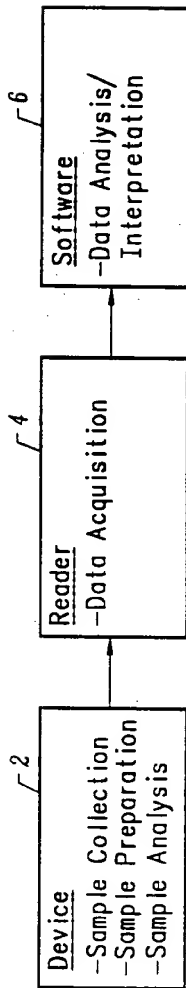


FIG. 1

407050: 55975260

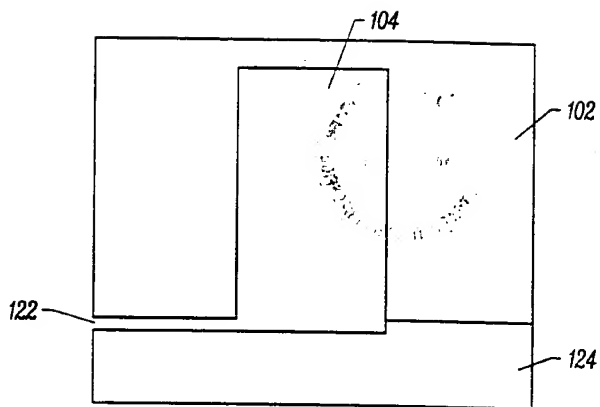


FIG. 2A

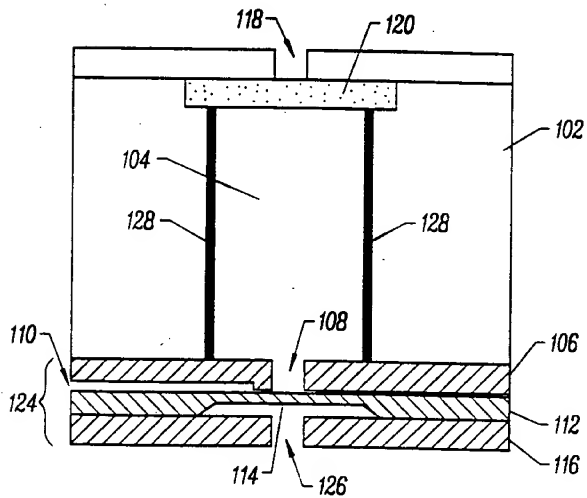


FIG. 2B

09754550.050104

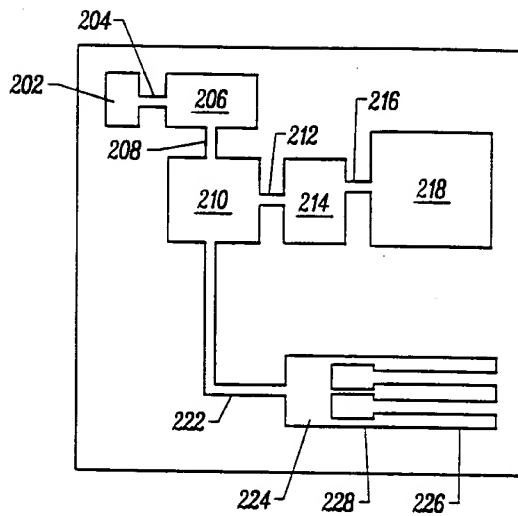


FIG. 3

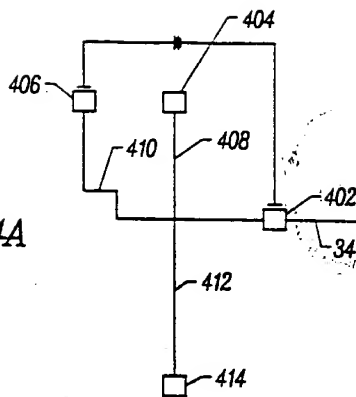


FIG. 4A

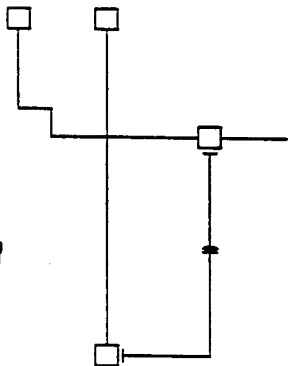


FIG. 4B

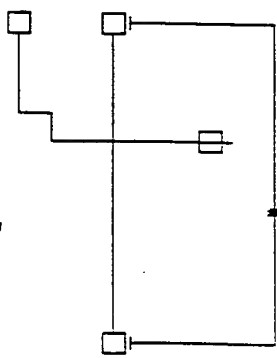


FIG. 4C

0975459:050404

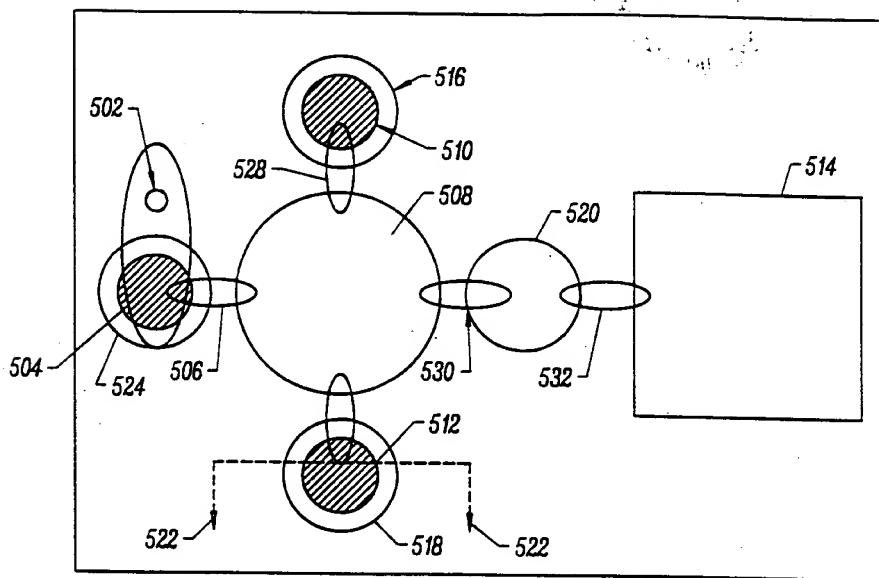
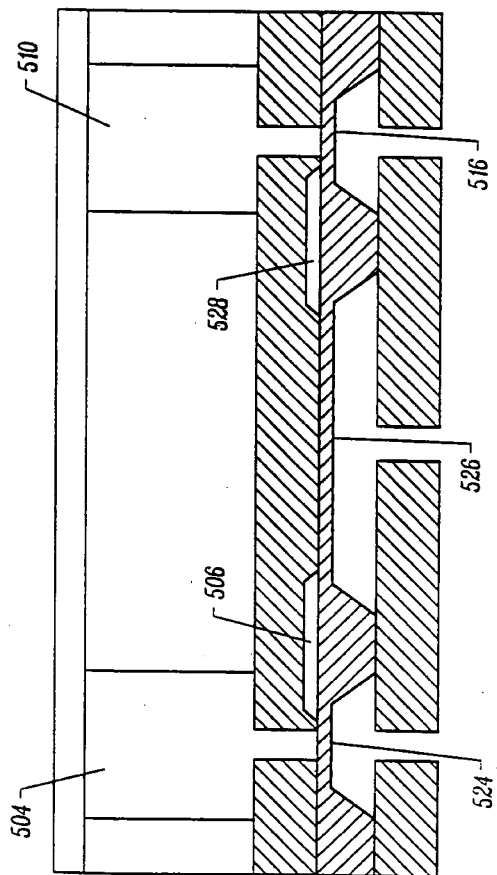


FIG. 5A



**FIG. 5B**

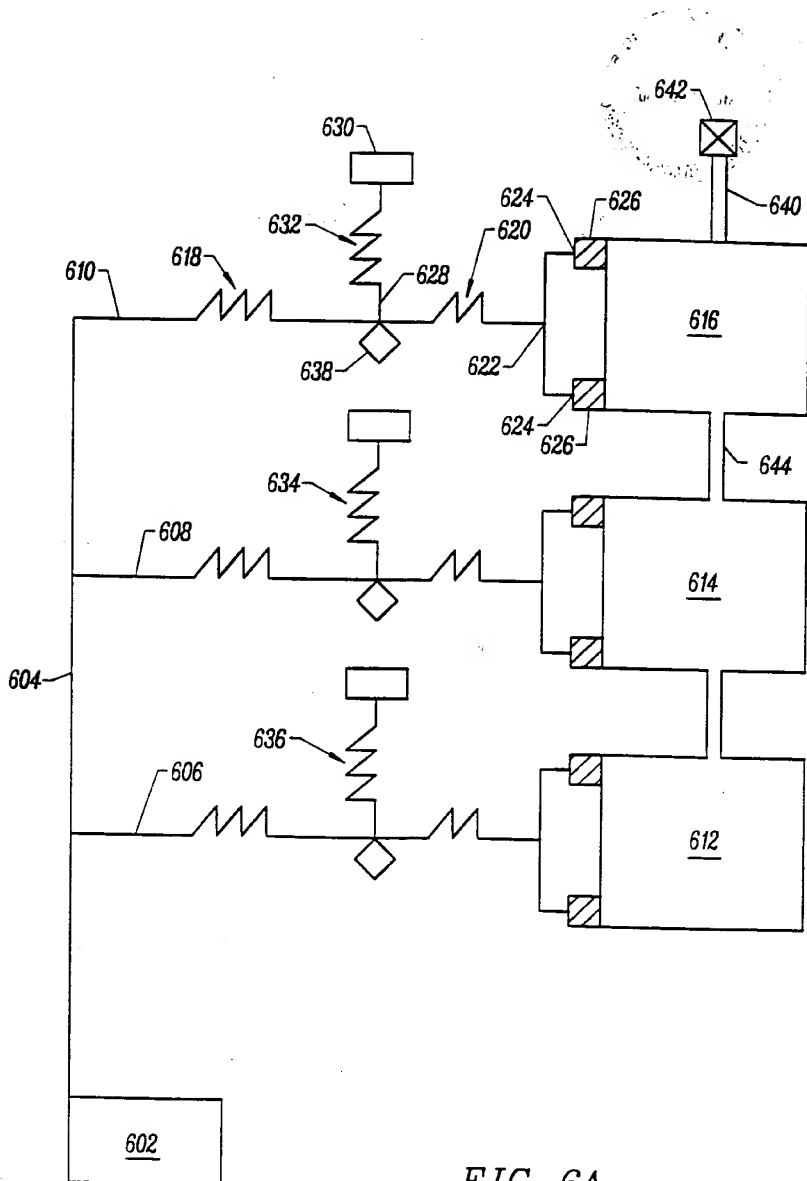


FIG. 6A

0951658-050101

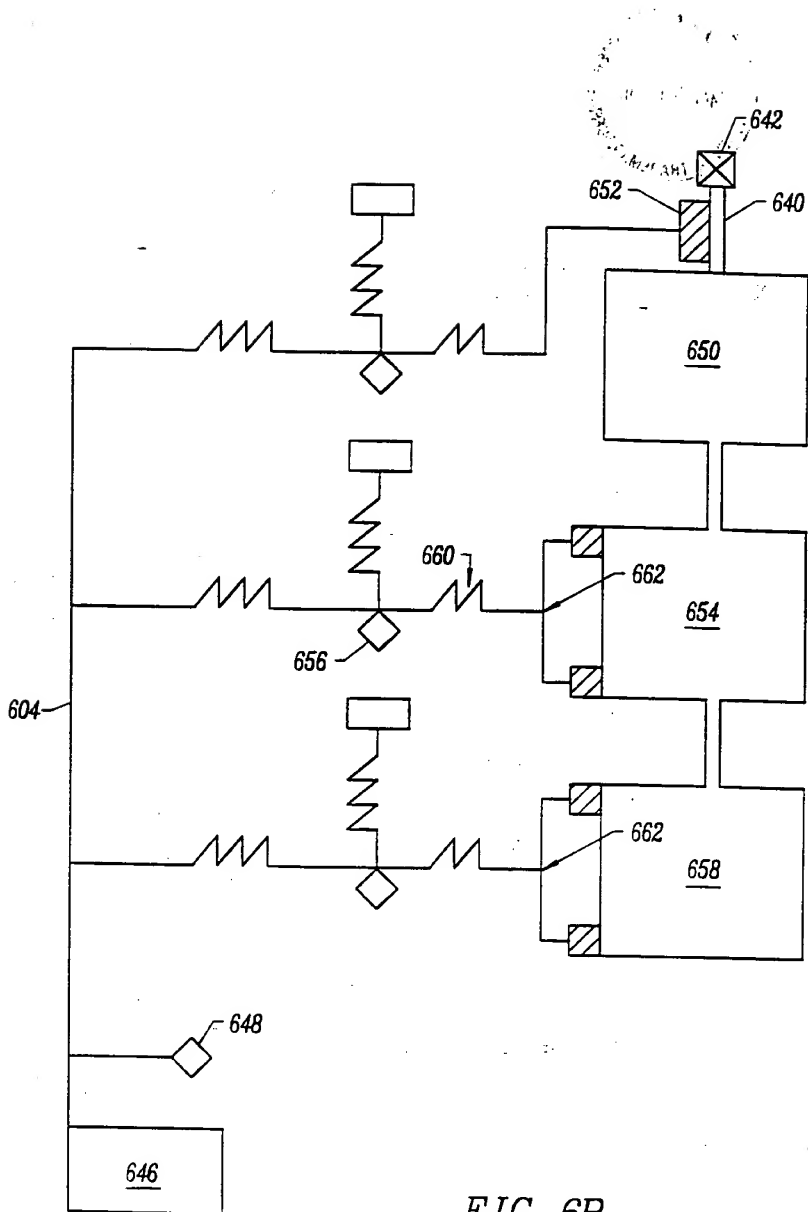


FIG. 6B



095515Z60



Pressure Distribution Among Control Nodes

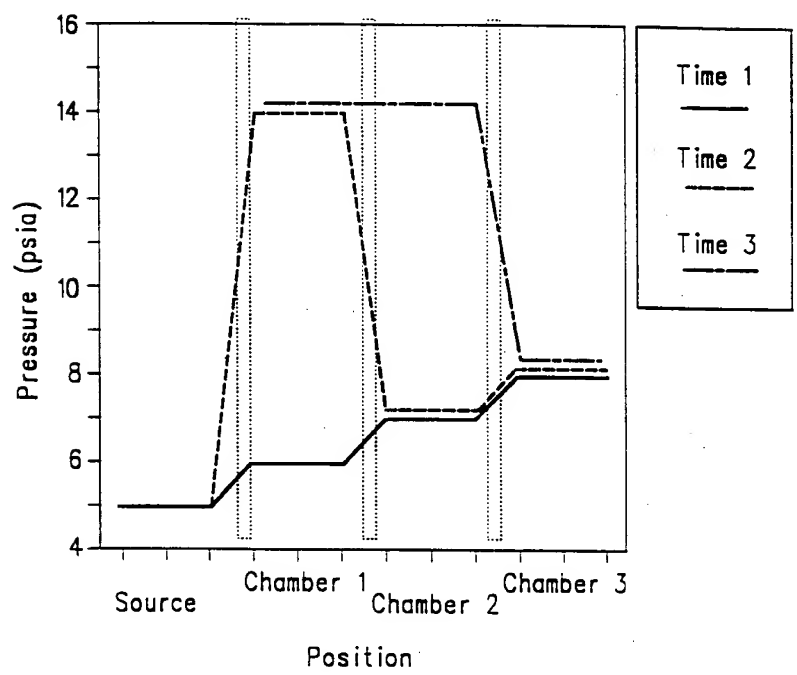


FIG. 6C

00751659-050101

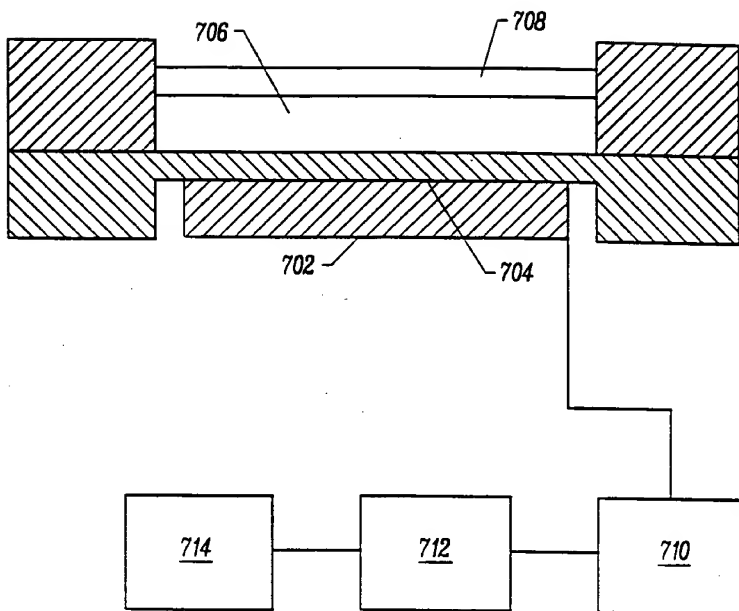


FIG. 7A

Flow Visualization

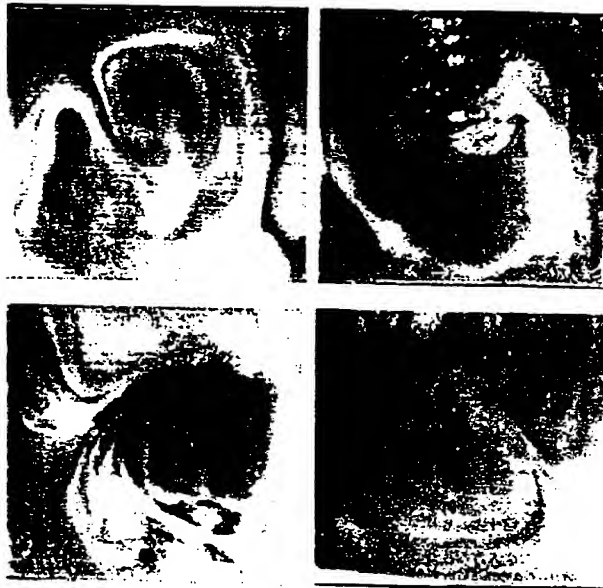


FIG. 7B

09751558:050101

09751658 : 050101

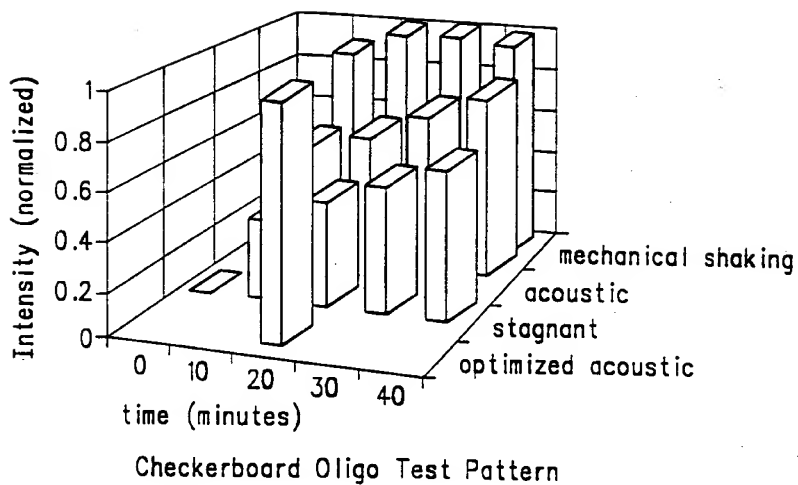


FIG. 7C

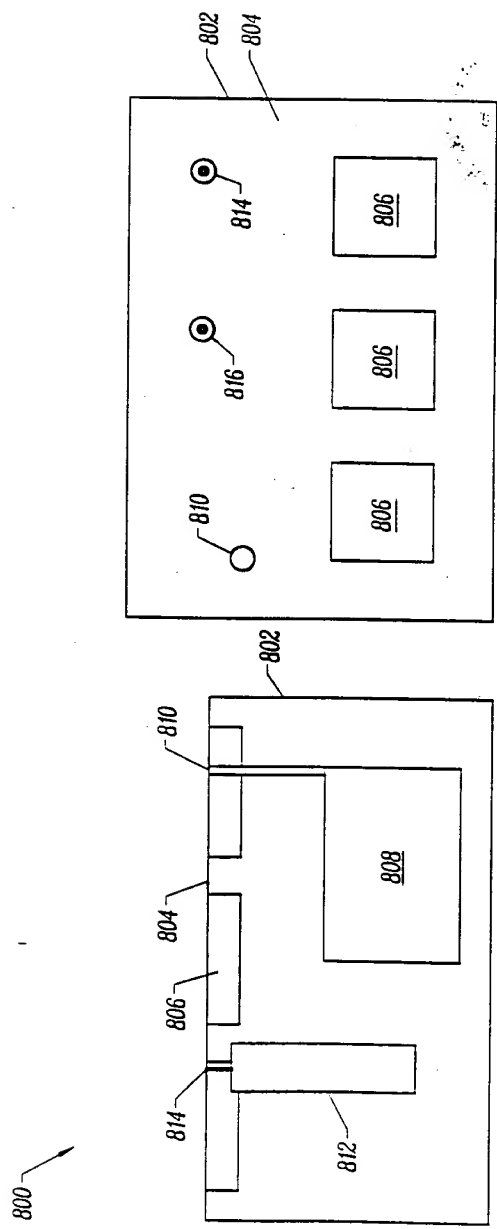


FIG. 8

101050" 85975260

Cycles: 35	Ini Den	Den	Ann	Fin Ext	Hold
Temp	94.0	94.0	65.0	72.0	10.0
Time(s)	60	20	40	50	60
Temp Hem	0	0	0	42	0
Cyc Hem 19	St. Time [Min]	85.4			
		Tue. Nov. 14, 1995			
		11:31 AM			

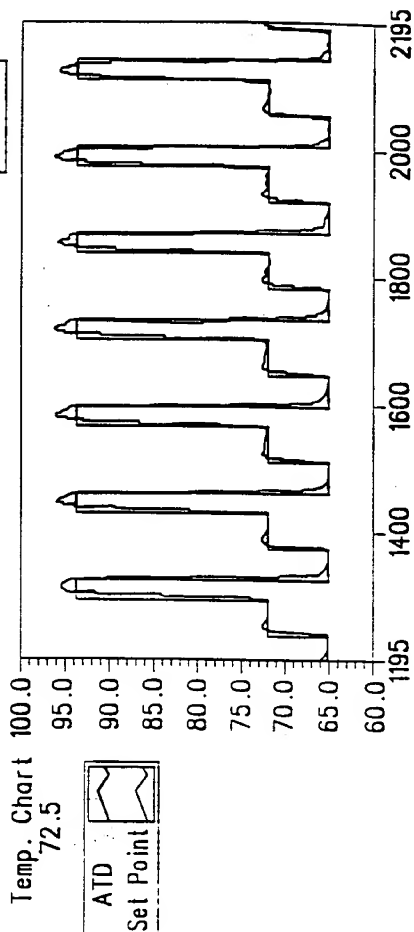
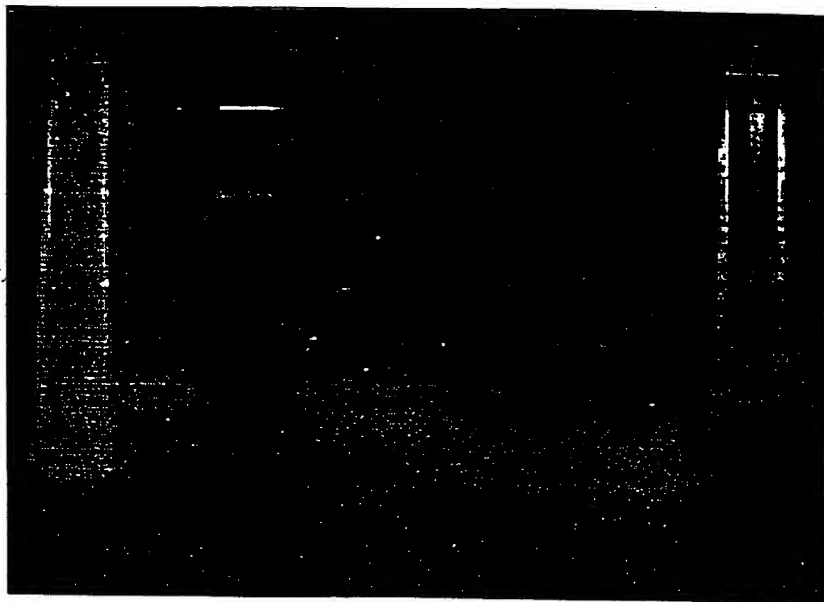


FIG. 9

# Effect of Fragmentation Time at 94C

t = 0 5 10 30 60 120 minutes



Correct Call Rates:

74%	95.8%	95.9%
95.9%	95.5%	83%

FIG. 10A

Standard



Tube Based

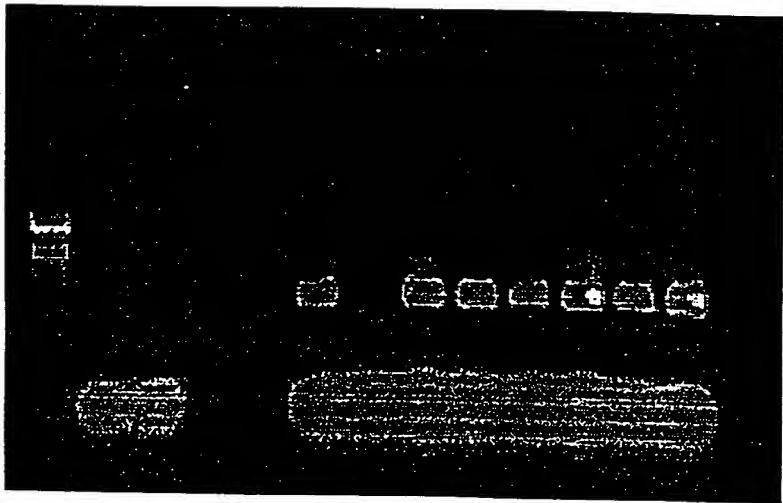


FIG. 10B

09751658-050101



## PCR Results

### ■ PCR:

amplification:  $10^9$  (35 cycles)

control      microchamber

✓

✓



FIG. 10C

TOP SECRET

1100

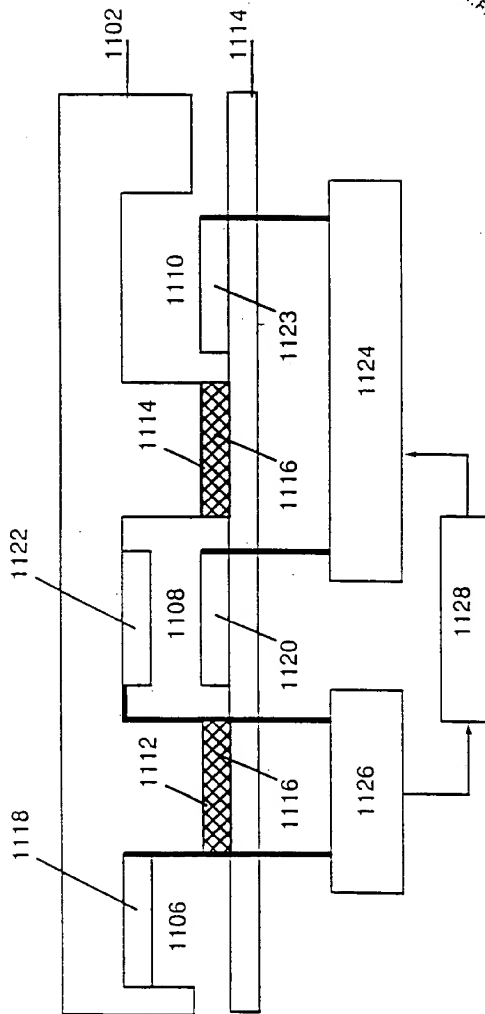


Figure 11

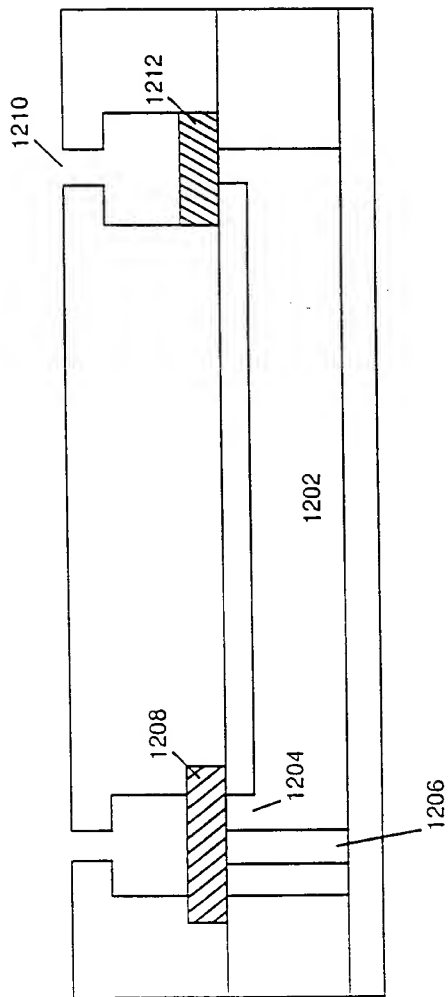


Figure 12a

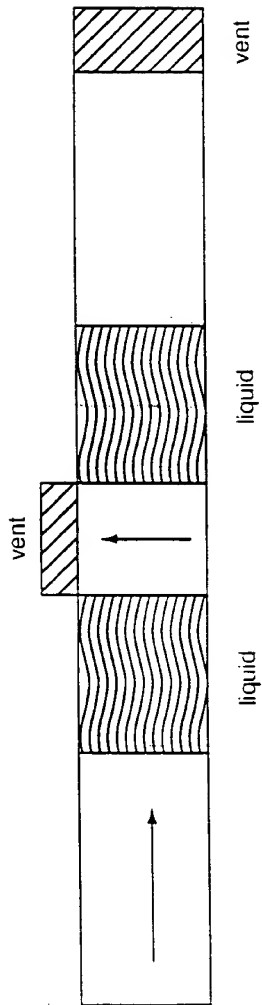


Figure 12b



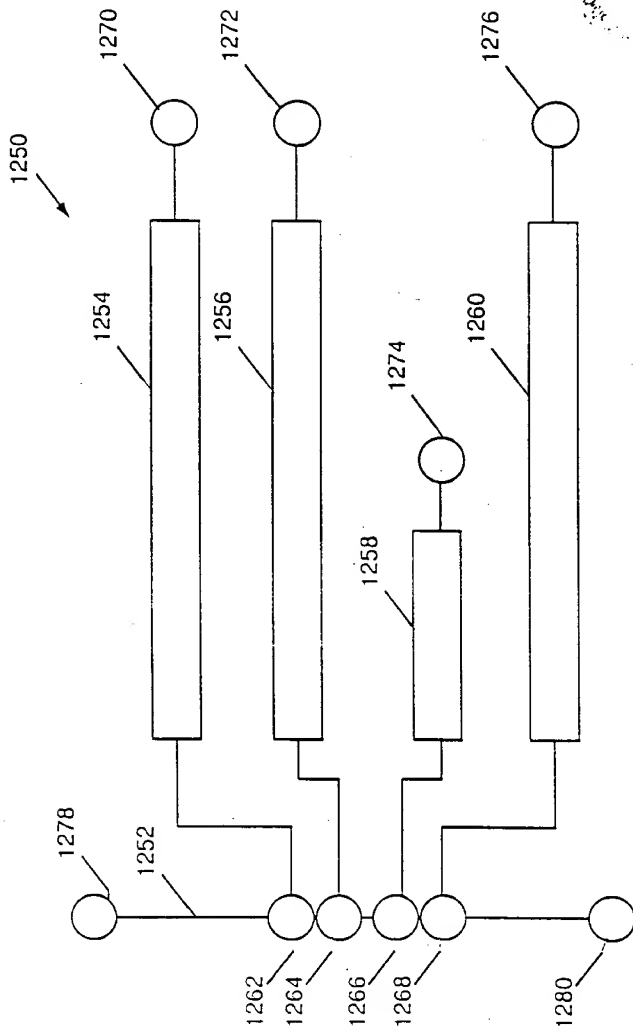


Figure 12c

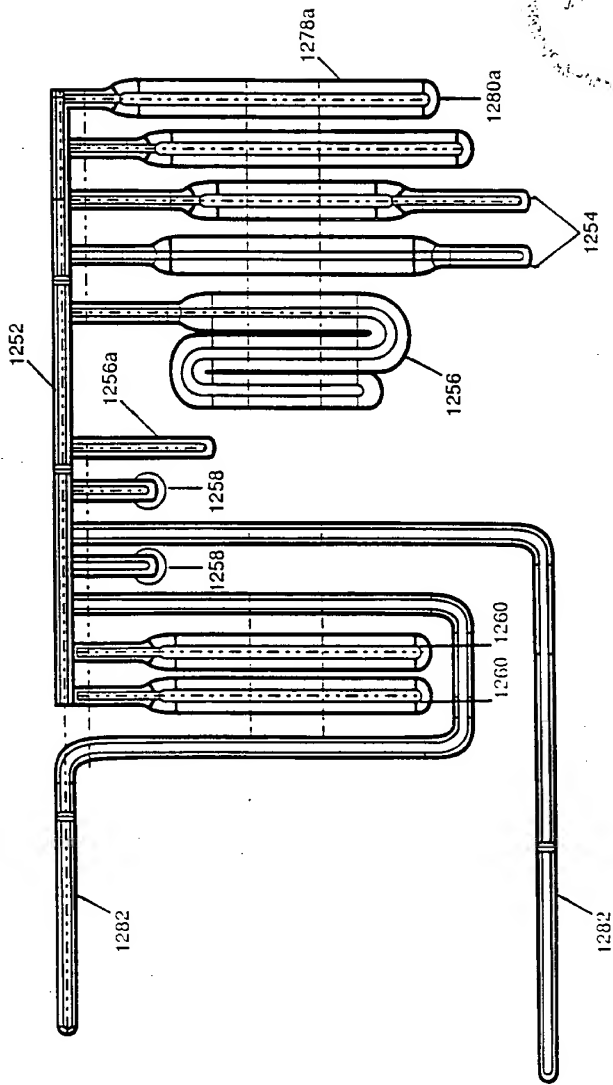


Figure 12d

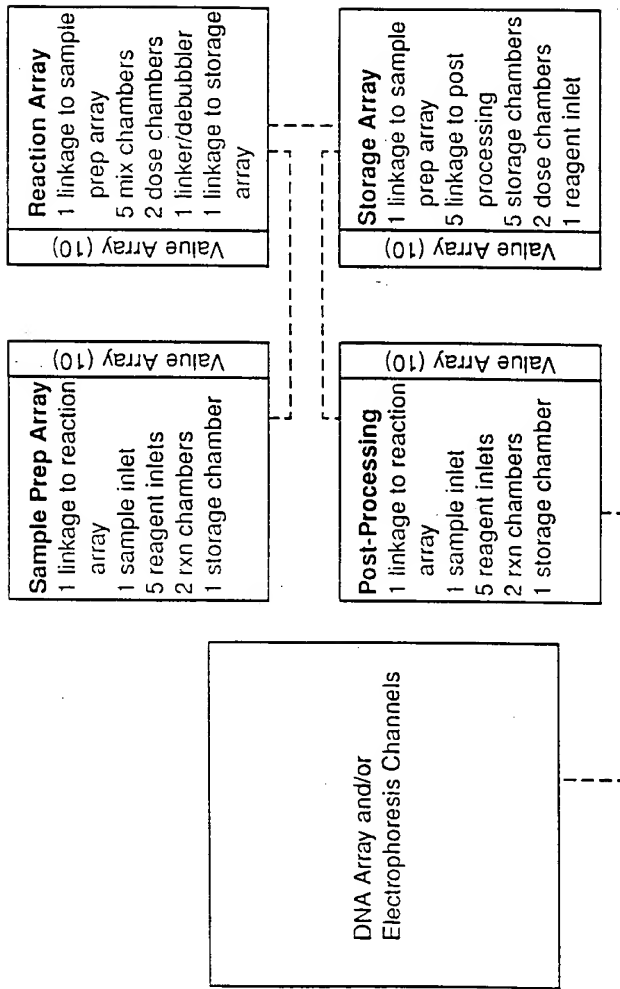


Figure 13

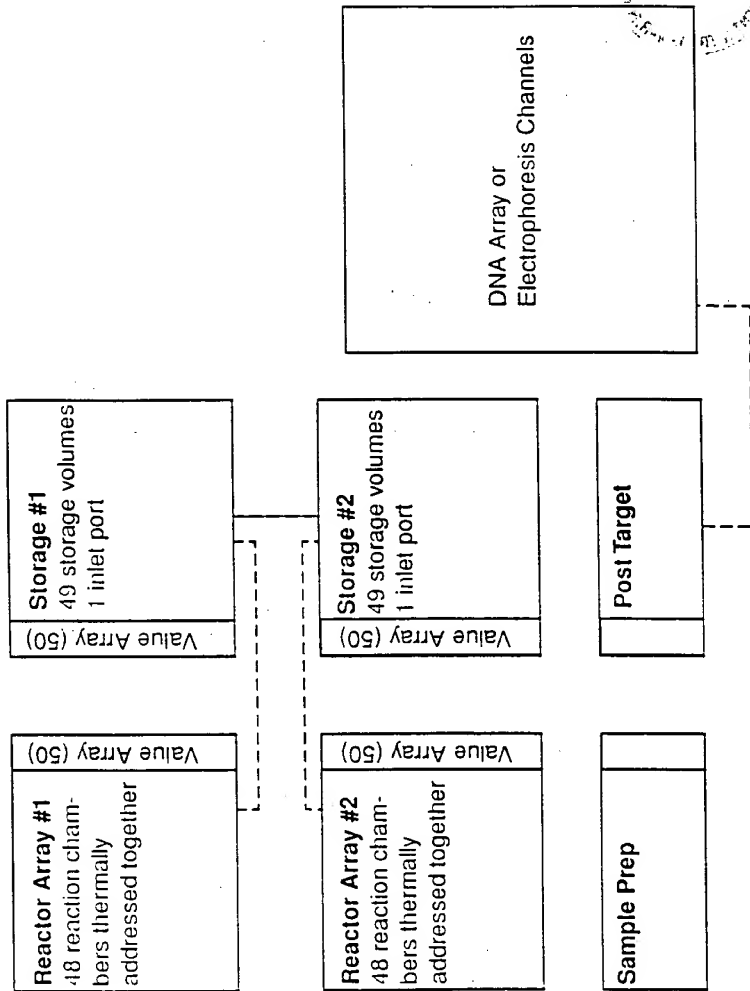


Figure 14



## Thermal Configuration

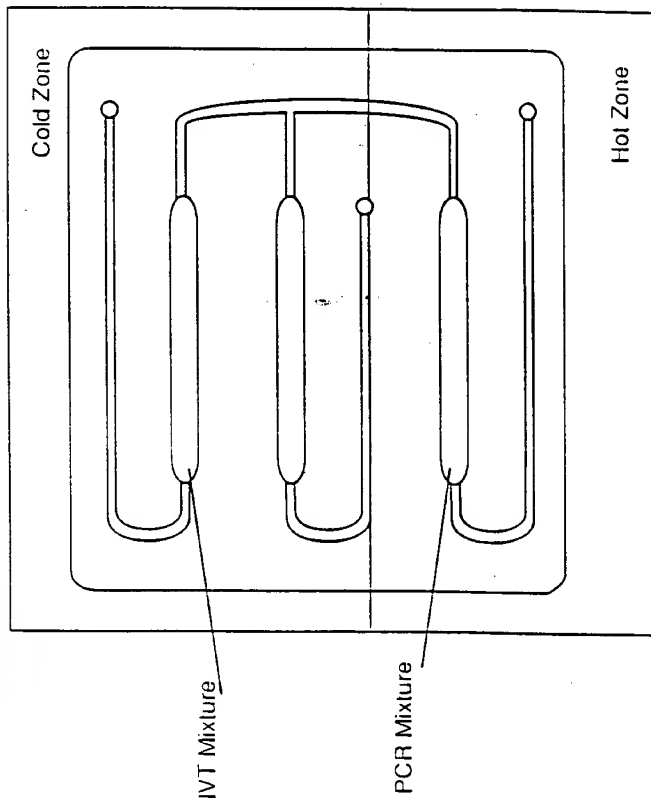


Figure 15a

00751558.050101  
TOT050-85915260

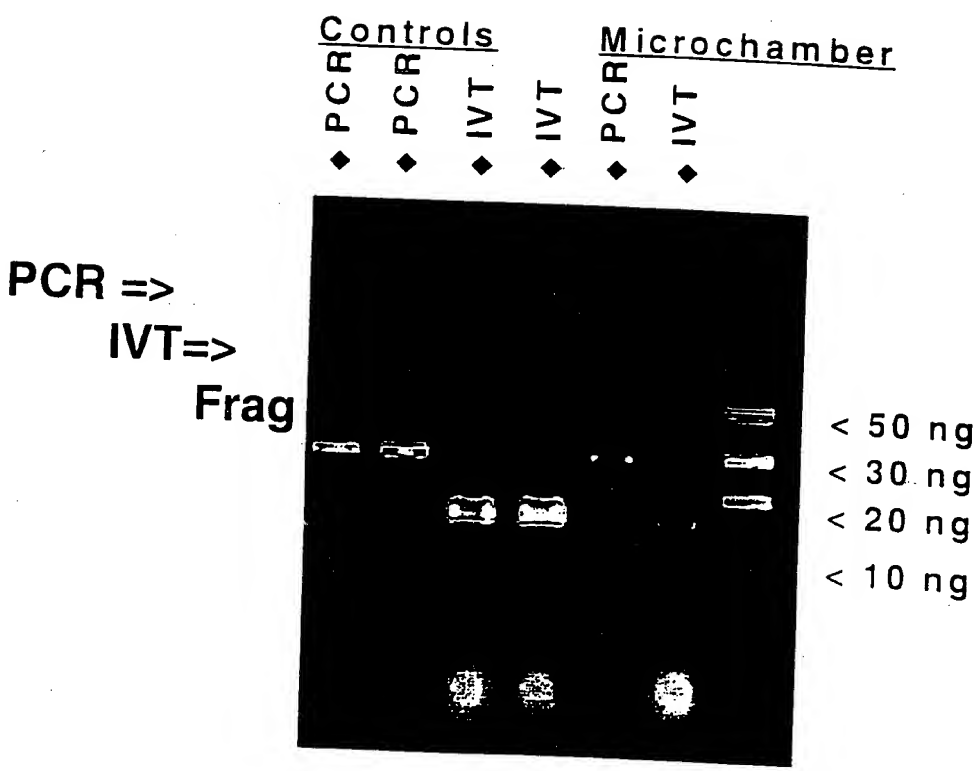


Fig. 15B